

National 4 Homework 18

Questions 1 and 2 are Non Calculator

1. a) $8^2 - (-14)$ b) 3.7×700 c) $\frac{3}{5}$ of 249 d) 15% of £645

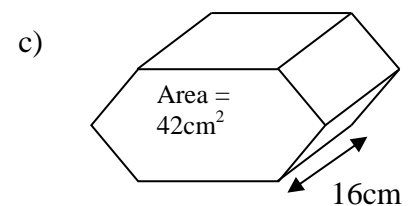
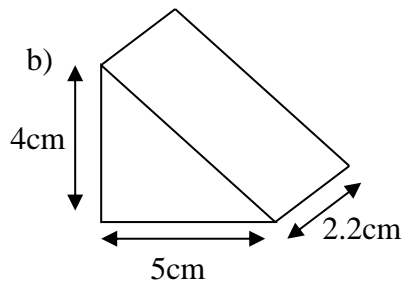
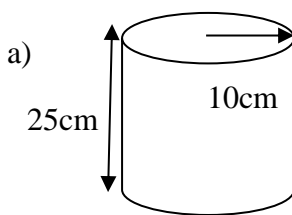
2. The melting points of various elements are shown below. These are the temperatures at which a solid becomes a liquid.

Element	Melting Point ($^{\circ}\text{C}$)
Sodium (Na)	98
Potassium (K)	64
Phosphorus (P)	44
Bromine (Br)	-7
Mercury (Hg)	-39
Radon (Rn)	-71
Chlorine (Cl)	-101

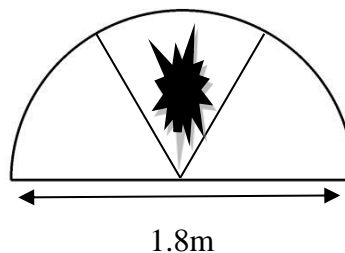
Calculate the difference in the melting points of:

- a) Na & K
b) P & Rn
c) Br & Cl.

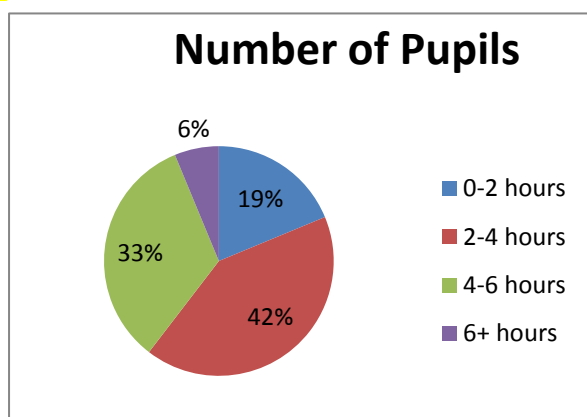
3. Calculate the volume of each of these 3D shapes.



4. A semi-circular window is made from three panes of glass. One of the panes is broken. What area of glass will need to be replaced? (Give your answer to 1 d.p)



5.



A pie chart was constructed to show the number hours of exercise S3 pupils took part in during a week.

- a) If 60 pupils said they did 4-6 hours of exercise a week, how many pupils in S3 were asked **altogether**?
- b) How many pupils only completed between 0 and 2 hours of exercise a week?